



Figure 1: HR Motors – Force vs Velocity at Varying Work Regimes

AB5					
Curve	Duty Cycle [%]			Maximal Continuous Operation time [sec]	
	Environment Ambient Temperature			Environment Ambient Temperature	
	Air 25°C Brake_Off	Air 25°C Brake_On	Vacuum Brake_On	Air 25°C	Vacuum
a	100	100	28	...	230
b	100	100	23	...	210
c	100	100	19	...	150
d	100	100	14	...	110
e	50	80	13	280	90
f	33	58	12	170	66
g	24	45	10	77	44
h	11	28	6.5	32	25

Table1: EOP Table for HR Motors Driven by AB5 (Standard LUT)

AB51					
Curve	Duty Cycle [%]			Maximal Continuous Operation time [sec]	
	Environment Ambient Temperature			Environment Ambient Temperature	
	Air 25°C Brake_Off	Air 25°C Brake_On	Vacuum Brake_On	Air 25°C	Vacuum
a	100	100	56	...	500
b	100	100	54	...	450
c	100	100	45	...	280
d	100	100	33	...	170
e	99	99	23	...	100
f	53	58	12	170	66
g	33	48	10	77	44
h	17	28	6.5	32	25

Table 2: EOP Table for HR Motors driven by AB51 (Reduced LUT).